

Subscribe (Full Service) Register (Limited Service, Free) Login

Search: The ACM Digital Library () The Guide

bounded error compress

SEARCH

THE ACM DIGITAL LIBRARY

Feedback Report a problem Satisfaction survey

Terms used bounded error compress

Found **36,949** of **199,787** 

Sort results

results

relevance by Display expanded form

Save results to a Binder Search Tips Open results in a new

Try an Advanced Search Try this search in The ACM Guide

window

Result page: 1 2 3 4 5 6 7 8 9 10

Relevance scale

Results 1 - 20 of 200

Best 200 shown

next

Nonorthogonal decomposition of binary matrices for bounded-error data compression



Mehmet Koyutürk, Ananth Grama, Naren Ramakrishnan

March 2006 ACM Transactions on Mathematical Software (TOMS), Volume 32 Issue 1

**Publisher: ACM Press** 

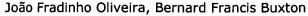
Full text available: pdf(1.07 MB)

Additional Information: full citation, abstract, references, index terms

This article presents the design and implementation of a software tool, PROXIMUS, for error-bounded approximation of high-dimensional binary attributed datasets based on nonorthogonal decomposition of binary matrices. This tool can be used for analyzing data arising in a variety of domains ranging from commercial to scientific applications. Using a combination of innovative algorithms, novel data structures, and efficient implementation, PROXIMUS demonstrates excellent accuracy, performance, and ...

**Keywords:** Compressing binary-valued vectors, nonorthogonal matrix decompositions, semidiscrete decomposition

Modeling: PNORMS: platonic derived normals for error bound compression



November 2006 Proceedings of the ACM symposium on Virtual reality software and technology VRST '06

**Publisher: ACM Press** 

Full text available: pdf(3.97 MB) Additional Information: full citation, abstract, references, index terms

3D models of millions of triangles invariably repeatedly use the same 12-byte unit normals. Several bit-wise compression algorithms exist for efficient storage and progressive transmission and visualization of normal vectors. However such methods often incur a reconstruction time penalty which, in the absence of dedicated hardware acceleration, make real-time rendering with such compression/reconstruction methods prohibitive. In particular, several methods use a subdivided octahedron to create I ...

Keywords: colour compression, error bound, normal compression, run-time encoding

Bounded-error compression of particle data from hierarchical approximate methods

Dow-Yung Yang, Ananth Grama, Vivek Sarin

January 1999 Proceedings of the 1999 ACM/IEEE conference on Supercomputing

